



**WO 2004/003912 A1**



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

Application No

PCT/IB 03/02825

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G11B27/28 G11B27/10 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US 2003/028721 A1 (WOODWARD MARK L) 6 February 2003 (2003-02-06)	12-14
P,A	the whole document	1,8
P,A	US 2003/112729 A1 (NICHOLS JAMES B ET AL) 19 June 2003 (2003-06-19)	1,8,12
A	the whole document	
A	WO 92 07360 A (MORO MARIO) 30 April 1992 (1992-04-30)	1,8
A	the whole document	
A	US 6 188 659 B1 (MUELLER WILLIAM J ET AL) 13 February 2001 (2001-02-13)	1,8
	the whole document	
	--- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

31 October 2003

Date of mailing of the international search report

07/11/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Daalmans, F

## INTERNATIONAL SEARCH REPORT

Application No  
PCT/IB 03/02825

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 05616 A (SONY ELECTRONICS INC) 13 February 1997 (1997-02-13) page 5, line 13 -page 6, line 7 -----	1
A	WO 98 25269 A (THOMSON CONSUMER ELECTRONICS) 11 June 1998 (1998-06-11) page 3, line 32 -page 4, line 2 page 10, line 28 -page 11, line 38 -----	1
A	WO 02 46968 A (OPENGLOBE INC) 13 June 2002 (2002-06-13) page 8, paragraph 22 -page 9, paragraph 27 -----	1
A	US 6 304 523 B1 (JONES SCOTT A ET AL) 16 October 2001 (2001-10-16) column 5, line 13 - line 59 -----	1

## INTERNATIONAL SEARCH REPORT

Application No  
PCT/IB 03/02825

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2003028721	A1	06-02-2003	NONE	
US 2003112729	A1	19-06-2003	WO 03052759 A1	26-06-2003
WO 9207360	A	30-04-1992	WO 9207360 A1	30-04-1992
US 6188659	B1	13-02-2001	NONE	
WO 9705616	A	13-02-1997	US 5751672 A	12-05-1998
			AT 192879 T	15-05-2000
			AU 700004 B2	17-12-1998
			AU 6344896 A	26-02-1997
			CA 2227519 A1	13-02-1997
			CN 1192285 A	02-09-1998
			DE 69608281 D1	15-06-2000
			DE 69608281 T2	30-11-2000
			EP 0840927 A1	13-05-1998
			HK 1007910 A3	30-04-1999
			JP 11514482 T	07-12-1999
			WO 9705616 A1	13-02-1997
			US 6388958 B1	14-05-2002
			US 6247022 B1	12-06-2001
			US 2001056424 A1	27-12-2001
			US 2001004338 A1	21-06-2001
			US 6147940 A	14-11-2000
			US 6128255 A	03-10-2000
			US 2001056430 A1	27-12-2001
			US 6128625 A	03-10-2000
WO 9825269	A	11-06-1998	US 6034925 A	07-03-2000
			US 6031795 A	29-02-2000
			AU 7627398 A	29-06-1998
			CN 1284721 A	21-02-2001
			CN 1284722 A	21-02-2001
			CN 1239573 A	22-12-1999
			DE 69716632 D1	28-11-2002
			DE 69716632 T2	31-07-2003
			EP 1152421 A2	07-11-2001
			EP 0941537 A1	15-09-1999
			JP 2001506795 T	22-05-2001
			JP 2001313892 A	09-11-2001
			KR 2000057236 A	15-09-2000
			WO 9825269 A1	11-06-1998
			US 6252831 B1	26-06-2001
			US 6226235 B1	01-05-2001
			JP 2001273748 A	05-10-2001
WO 0246968	A	13-06-2002	EP 1352340 A2	15-10-2003
			US 2002069195 A1	06-06-2002
			WO 0246968 A2	13-06-2002
US 6304523	B1	16-10-2001	JP 2000215653 A	04-08-2000
			US 2002048224 A1	25-04-2002